

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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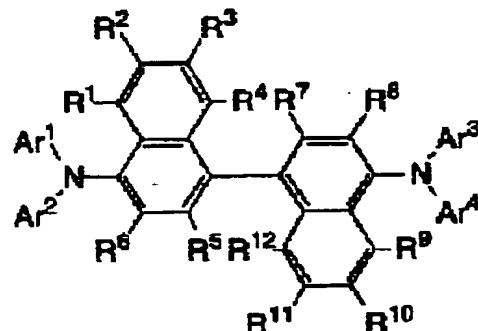
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INVENTOR : ICHINOSAWA AKIKO;

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TITLE : ORGANIC ELECTROLUMINESCENT  
ELEMENT



ABSTRACT : PROBLEM TO BE SOLVED: To provide an electroluminescent element excellent in heat resistance capable of keeping stable luminescent characteristic at high temperature by nipping a positive hole transport layer containing an aromatic amine having a specified binaphthyl frame on a base between a positive electrode and a negative electrode, and providing a luminescent layer between them.

SOLUTION: A positive electrode of metal, metal oxide, conductive polymer or the like is formed on a base of glass, metal, synthetic resin or the like. A positive hole transport layer excellent in heat resistance having a high positive hole injection efficiency and a high glass transition temperature is provided thereon. The positive hole transport layer is formed of an aromatic amine having a binaphthyl frame represented by the formula (Ar<sup>1</sup>-Ar<sup>4</sup> are aryl, biphenyl, or aromatic heterocyclic group; R<sup>1</sup>-R<sup>2</sup> are hydrogen atom, halogen atom, or hydroxyl, alkyl, alkenyl, aromatic hydrocarbon, alkoxy carbonyl, alkoxy, aryloxy, dialkylamino, or diarylamino group). The luminescent layer and the negative electrode are provided thereon to provide a highly reliable organic electroluminescent element.

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